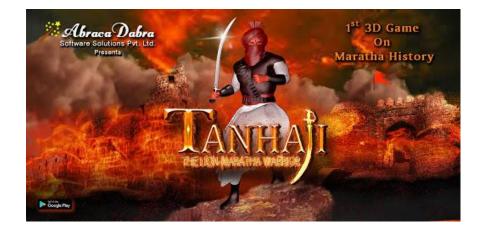
The Zenith

November, 2021 Volume 4, Issue 6



Contents:

Bridging optics and electronics (2)

Expert
Lecture/Seminars/Industrial
Visits Organized (4)

Industrial Training /
Seminar/Workshop done by
Staff (11)

Udemy Courses Developed by Staff (17)

Placement (18)

Internship at HAL (19)

Alumni Achievement (20)

Bridging optics and electronics

Spatial light modulators are common optical components found in everything from home theater projectors to cutting-edge laser imaging and optical computing. These components can control various aspects of a light, such as intensity or and phase, pixel by pixel. Most spatial light modulators today rely on mechanical moving parts to achieve this control but that approach results in bulky and slow optical devices.

Now, researchers at the Harvard John A. Paulson School of Engineering and Applied Sciences, in collaboration with a team from Washington University, have developed a simple spatial light modulator made from gold electrodes covered by a thin film of electro-optical material that changes its optical properties in response to electric signals.

This is a first step towards more compact, high-speed and precise spatial light modulators that could one day be used in everything from imaging to virtual reality, quantum communications and sensing. The research is published in Nature Communications.

"This simple spatial light modulator is a bridge between the realms of optics and electronics," said Cristina Benea-Chelmus, a postdoctoral fellow at SEAS and first author of the paper.

"When you interface optics with electronics, you can use the entire backbone of electronics that has been developed to open up new functionalities in optics."

The researchers used electro-optic materials designed by chemists Delwin L. Elder and Larry R. Dalton at the University of Washington. When an electric signal is applied to this material, the refractive index of the material changes. By dividing the material into pixels, the researchers could control the intensity of light in each pixel separately with interlocking electrodes.

With only a small amount of power, the device can dramatically change the intensity of light at each pixel and can efficiently modulate light across the visible spectrum.

The researchers used the new spatial light modulators for image projection and remote sensing by single-pixel imaging.

"We consider our work to mark the beginning of an up-and-coming field of hybrid organicnanostructured electro-optics with broad applications in imaging, remote control, environmental monitoring, adaptive optics and laser ranging," said Federico Capasso, Robert L. Wallace Professor of Applied Physics and Vinton Hayes Senior Research Fellow in Electrical Engineering, senior author of the paper.

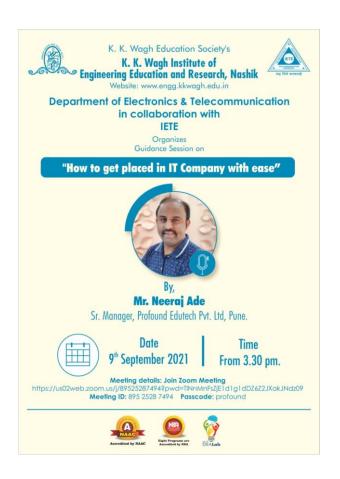
Harvard's Office of Technology Development has protected the intellectual property associated with this project and is exploring commercialization opportunities.

The research was co-authored by Maryna L. Meretska, Delwin L. Elder, Michele Tamagnone and Larry R. Dalton. It was supported in part by the Office of Naval Research (ONR) MURI program, under grant no. N00014-20-1-2450.

Source: Harvard John A. Paulson School of Engineering and Applied Sciences www.sciencedaily.com

Expert Lecture/Seminars/Courses/Industrial Visits Organized

Department of Electronics and Telecommunication, K.K.Wagh Institute of Engineering Education and Research, Nashik in collaboration with IETE Nashik subcenter conducted webinar on "How to write Resume" By Padmini Bhasin, Soft Skills, Employability Skill Coach, Associate NLP Practitioner On 4th September 2021





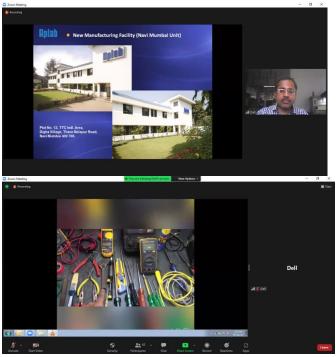
 Webinar was organized in collaboration with IETE Nashik Sub-Center on "How to get placed in IT Company with ease" by Mr. Neeraj Ade Sr. Manager, Profound Edutech Pvt. Ltd, Pune. on 9th September 2021 Workshop was organized in collaboration with with IETE Nashik Sub-Center on "Troubleshooting and maintenance of Electronic Instruments"

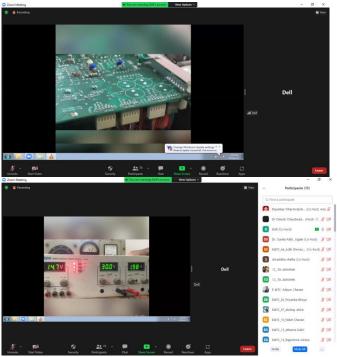
Resource Person for the workshop:

- o Asim Kumar Saha, Service Manager, Customer Support (Technical), APLAB
- o Mr. Prashant Sawant , Seniour Manager , APLAB
- o Aishwarya R. Mhaske, Service Engineer

Date: 09 Sepetember 2021

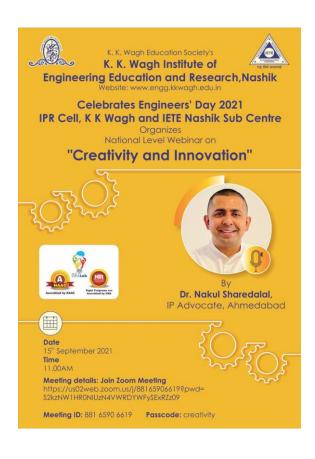






 IPR Cell of K. K. Wagh Institute of Engineering Education & Research, Nashik in collaboration with IETE Nashik subcenter Celebrates Engineer's Day by organising National Level webinar on "Creativity and Innovation" by Dr.Nakul Sharedalal, IP Advocate, Ahmedabad on 15th September 2021

Department of Electronics and Telecommunication of K. K. Wagh Institute of Engineering Education & Research, Nashik in collaboration with IETE Nashik subcenter organized Webinar On "Future in Electronics as an Entrepreneur " , by Mr. Sanjay Chaudhari, Director, Electronics Study Centre, Nashik. on 16th September, 2021





Webinar was organized on "How to write Resume" By Padmini Bhasin, Soft Skills ,Employability Skill Coach ,Associate NLP Practitioner in collaboration with IETE Nashik subcenter on 17th September 2021 TE students.



Department of Electronics & Telecommunication Engineerig of K.K.Wagh Institute of Engineering Education and Research, Nashik collaboration with IETE Nashik Subcenter Organizes Webinar for "Female Entrepreneurs: women on Opportunities and Challenges" by Mrs. Sujata Prashant Bachhav, C.E.O. Aarya Innovtech Pvt. Ltd. and Proprietor Aarya Technologies, Nashik On 17th September 2021



 Department of Electronics & Telecommunication Engineering of K. K. Wagh Institute of Engineering Education and Research, Nashik is organized a webinar on "Aptitude Preparations" by Sagar Nikam & Madhura Shelar (Directors, Excellence Learning Centre Pvt. Ltd., Nashik) on 18th September 2021.



 Webinar was organized in collaboration with IETE Nashik Subcenter on "From SELL OUT to SAIL WITHIN" by Manali Malpani, Application Developer with IBM in Dublin, Ireland on 21st September 2021.



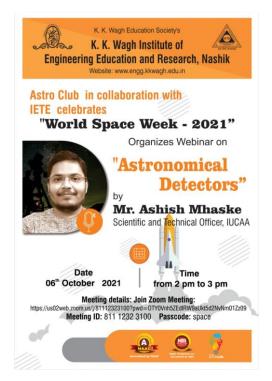
Webinar was organized on "Skill Set Needed for Professional Career" by Mrs. Meenakshi
 Kulkarni, Founder-AdeptVision on 25th September 2021



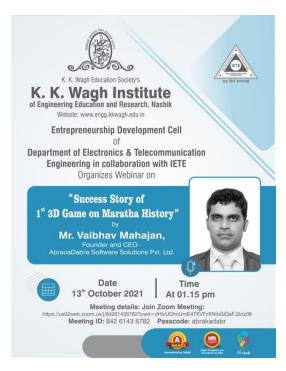
 Career Development Cell of Department of Electronics and Telecommunication of K.K. Wagh Institute of Engineering Education and Research, Nashik in collaboration with IETE Nashik subcenter organized webinar on "Career Prospects after B.E. & GATE Orientation" by Mr. K. N. S. Hemanth (Subject Expert at OHM, AIR 4 in IES, State 5th in AP TRANSCO, Alumni of BITS) On 29th September 2021.



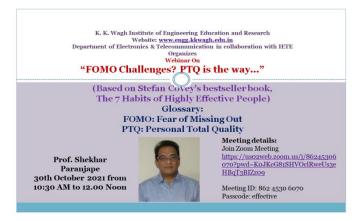
 Astro Club of K. K. Wagh Institute of Engineering Education & Research, Nashik in collaboration with IETE Nashik sub center Celebrates "World Space Week-2021" by organized Webinar On "Astronomical Detectors" by Ashish Mhaske, Scientific and Technical Officer, IUCAA on 6th October 2021.



 Entrepreneurship Development Cell of department of E&TC in collaboration with IETE Nashik subcenter organized webinar on "Success Story of 1st 3D Game on Maratha History" by Mr.Vaibhav Mahajan, Founder and CEO of AbracaDabra Software Solutions Pvt.Ltd on 13th October 2021.



• Department of E&TC in collaboration with IETE Nashik subcenter organized webinar on "FOMO Challenges? PTQ is the way..." by Prof. Shekhar Paranjape on 30th October 2021.



Industrial Training / Seminar/Workshop done by Staff

Mr. R. R. Khinde has completed NPTEL certification course on "NBA Accreditation and Teaching
 Learning in Engineering (NATE)" with the score of 65%.



• Mr. P. J. Mondhe has completed NPTEL certification course on "Introduction to Research" with the score of 72%.



 Prof. Dr. D. M. Chandwadkar has contributed in the syllabus designing/framing of the subject "Power and Industrial Electronics" as a Team Leader at TE (Electronics) Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



 Dr. K. S. Holkar has contributed in the syllabus designing/framing of the subject Instrumentation System as a Team Member at TE (Electronics) Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



Dr. S. A. Patil (Ugale) has contributed in the syllabus designing/framing of the subjects "Skill Development", "e-mobility" and "Fiber Optic Communication" as a Team Member at TE (Electronics) Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



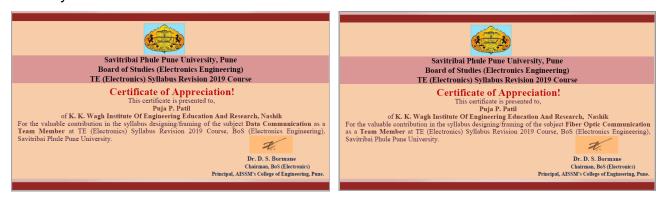




 Mr. R. R. Khinde has contributed in the syllabus designing/framing of the subject "Computer Networks" as a Team Member at TE (Electronics) Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



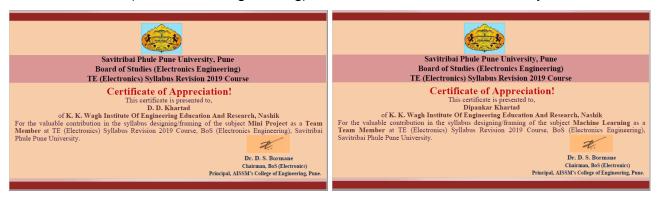
 Mrs. P. P. Patil has contributed in the syllabus designing/framing of the subjects "Data Communication" and "Fiber Optic Communication" as a Team Member at TE (Electronics)
 Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



 Mr. Parag J. Mondhe has contributed in the syllabus designing/framing of the subject Database Management System as a Team Member at TE (Electronics) Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



 Mr. D. D. Khartad has contributed in the syllabus designing/framing of the subject "Mini Project" and "Machine Learning" as a Team Member at TE (Electronics) Syllabus Revision 2019 Course, BoS (Electronics Engineering), Savitribai Phule Pune University.



 Mr. S. A. Zalte has participated in the One-Day Online Workshop on "How to Conduct the Student Induction (SIP) Program" on 20th September, 2021 organized by All India Council for Technical.



 Mrs. M. P. Joshi has successfully completed Two Days Online Webinar on "Patent filing process in India, case studies, litigations Trademark filing process in India" Conducted by Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur On 27-28 September, 2021



 Prof. Dr. D. M. Chandwadkar and Dr. S. A. Patil (Ugale) have participated in the Online Training Programme on "Free Software for Collaborative Learning" Conducted by National Institute of Technical Teachers' Training and Research, Chennai under the Ministry of Human Resource Development, Government of India from 4th to 8th October 2021





 Mr. P. J. Mondhe has completed certification course on "Deep Learning with PyTorch: Neural Style" Transfer an online non-credit course authorized by Coursera Project Network and offered through Coursera.



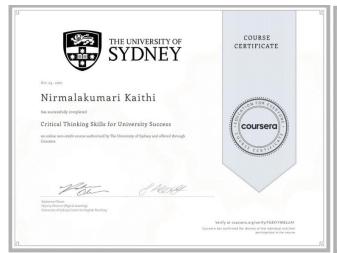
 Mr. P. J. Mondhe has completed certification course on "Build your first Machine Learning Pipeline using Dataiku" an online non-credit course authorized by Coursera Project Network and offered through Coursera.

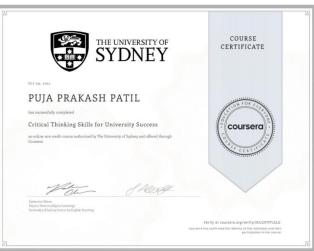


 Mrs. K. Nirmalakumari has completed certification course on "Getting Started with Azure DevOps Boards" an online non-credit course authorized by Coursera Project Network and offered through Coursera.



 Mrs. K. Nirmalakumari and Mrs. P. P. Patil have completed certification course on "Critical Thinking Skills for University Success" an online non-credit course authorized by Coursera Project Network and offered through Coursera.





Udemy Courses Developed by Staff

• Staff has developed and uploaded different courses on Udemy platform

Sr. No.	Name of Staff	Name of Course	Link
1.	Dr. K. S. Holkar Mr. N. M. Bhujbal Mr. R. R. Khinde	Simulation tools for Industrial Automation	https://www.udemy.com/co urse/draft/4287426/?referr alCode=927D98C1D214A 556E86C
2.	Dr. S. P. Munot (Bhabad) Mrs. V. R. Lele Mr. S. A. Zalte	First course on Data Structures in C	https://www.udemy.com/co urse/first-course-in-data- structures-in-c
3.	Dr. S. A. Patil (Ugale) Mrs. M. P. Joshi Mr. D. C. Shimpi Mrs. K. Nirmalakumari	Digital Design: Mastering Digital CMOS Layout Design (using Microwind)	https://www.udemy.com/co urse/mastering-digital- cmos-layout- design/?instructorPreview Mode=guest
4.	Dr. S. S. Morade Mr. K. S. Navale Mr. D. D. Khartad	Linux (Ubuntu) Made Easy	https://www.udemy.com/co urse/linux-ubuntu-made- easy/

Placement

Sr. No	Name	Company
1.	Shubham Wagh	Lentra solutions, Pune, Winjit
2.	Vagmita Pandya	Lentra solutions, Pune
3.	Aneesh Tambe	Birlasoft, KPIT
4.	Ashish Shimpi	Birlasoft, Capgemini
5.	Dhwani Thakkar	Birlasoft
6.	Payal Jain	Birlasoft
7.	Shivam Chandwadkar	Birlasoft
8.	Shirisha Sudhir	Birlasoft
9.	Smitesh Joshi	KPIT
10.	Prathi Rai	Tieto Evry
11.	Shreya Pandit	Tieto Evry
12.	Swarali Varkhede	Tieto Evry, Capgemini, Bosch
13.	Apeksha Kasat	Capgemini
14.	Siddhi Pathak	Capgemini, Bosch
15.	Vaishnavi Kandekar	Capgemini, Bosch
16.	Pritam Sonje	Capgemini, Bosch
17.	Poorna Naik	Capgemini
18.	Atharva Aserkar	Capgemini
19.	Sanjana Kalantri	Capgemini
20.	Giriraj Alone	Capgemini
21.	Shraddha Shelke	Capgemini
22.	Amruta Desai	Benchmark IT Solution
23.	Neha Agrawal	Bosch
24.	Prachi Jaiswal	Bosch
25.	Shravya Mishra	Bosch
26.	Abhishek Chandwadkar	Hexaware

Internship

Four ME (E & TC) students got selected for Internship at Hindustan Aeronautics Limited



Mr. Rahul R Desale



Ms. Swati J Bodake



Ms. Payal S Jadhav



Ms. Sakshi V Tekawade

Alumni Achievement

 Alumnus of Department of Electronics & Telecommunication Engineering, Mr. Vaibhav Mahajan and his startup Abracadabra Software Solutions Pvt Ltd has won Gaming Start-up of the year in ET Leader of Tomorrow Award Conclave for 2021.

The game is available on Google play store

https://play.google.com/store/apps/details?id=com.AbracaDabra.Tanhaji





Tanhaji-The Lion Maratha Warrior is a free game made as a tribute to the warrior Tanhaji Malusare, and dedicated to the great Warrior king "Chhatrapati Shivaji Maharaj". Chattrapati was the founder of hindavi Swarajya Many Maratha soldier have given their life to build the Maratha Empire, Tanhaji was one of them Tanhaji game is one of the best free mobile fighting

games you will ever play. It offers a simulation like experience of a Warriors life. In this game, you have to go on an epic adventure to capture Kondhana fort for chhatrapati shivaji maharaj. you have to defeat all the mughals, coming in your way using your sword and fight for your survival. You can also take advantage of the open world environment to defeat your enemies.

This game is based on the maratha war strategies. Tanhaji game is just like other Chhatrapti Shivaji Maharaj game available on play store but This is the first 3d Indian war game ever and also the first Maratha warrior game. Tanhaji Game will spread awareness about the history of Maratha warrior Tanhaji. This is one of the best ever story-based action games on the history of Maratha's.

Alumnus of Department of Electronics & Telecommunication Engineering, Ms. Kanishka
 Thakur shared her journey of becoming an influencer with lokmat times.



'I have learned things the l

Says career counsellor and social media influencer Kanishka Thakur as she shares her journey of becoming an influencer with Lokmat Times

LOKMAT NEWS NETWORK

Known for her exemplary career advice and adamant attitude, Kanishka Thakur was fea-tured in Josh Talks Known tured in Josh Talks Known amongst the popular city influencer, this 23-year-old career counsellor has an Instagram page with over 20.8K followers. Today she helps over a million view-ers to solve their personal and professional life prob-lems and become efficient

and professional life prob-lems and become efficient in dealing with life.

Despite her huge follow-er base and platinum suc-cess, Kanishka says that she has learnt lessons the hard way. She says, "I have always been an adamant child and having been

raised in a family of government servants, I was brought up with the values of discipline and perseverance. I was a studious child and would participate in inter-school multiple competitions to bring laurels to my school. I clearly remember, once during a competition, I fumbled on stage and spelled a word incorrectly. I was trolled and joked upon for that mistake, which affected my mental state and caused aggression." Kanishka was heartbroken. But as she says, she was adamant and decided to work hard on her skills.

She decided to work on her English which let her push her limits at a very

young age. "I used to read multiple English books and soon I fell in love with English literature." She decided to pursue her graduation in Arts and wanted to opt English as her main subject. However, life had different plans for her. She went up to her parents, with her wish to pursue Arts and the appeal was rejected. She says, "My parents clearly wanted me to pursue Engineering. They asked me to take admission in an engineering college in Nashik. However, while filling the CAP round forms, the adamant me only selected colleges which were out of the city My narents were adamant me only selected colleges which were out of the city. My parents were very angry and they had to pay a donation to secure a management seat in one of the city's engineering college."

colleges." Stubborn Kanishka was interested

Engineering but she pursued it. At the same time, she also opted for a second degree and took admission in Arts. admission in Arts.
She went on to
pursue her graduation in engineering and
completed a
degree in
English. Later
she even completed
her certification

she even completed her certification course in career counselling, mass media and digital marketing. She decid-ed to guide the youth of the country and help them avoid the mistakes she made in her life.

she made in her life.
Today she has hundreds of clients and followers, who wait for her advice in their personal and professional development. She has worked with renowned influencers like Abhi and Niyu. "I used to visit the tea shop in my area

lokmat Times

'I have learned things the hard way, but I'm grateful'

Says career counsellor and social media influencer Kanishka Thakur as she shares her journey of becoming an influencer with Lokmat Times

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and talk to the visitors, hence submaring my nethence submaring my netton answering the question about her family's
est says, "My family is
definitely amongst the trahowever, that has never
influenced the love they
However, that has never
influenced the love they
they have different plans
and want me to follow
even supported my wish,
my dream and have stood
stitutation. Today, my
father travels hundreds of
and keep me safe during
my networking tours,
channelling is the reason
why I am so confident in
my and the current
generation has misunderscales. To the current
generation has misunderdads. I often come across
clients from the current
generation who have nice
elevation who me in the current
generation who have misgeneration who have misdescriptions.

selves with others. We can grow to unlimited levels when we believe in our-selves." She shared her

at Times

hard way, but I'm grateful'

and talk to the visitors, hence enhancing my networking skills."
On answering the question about her family's reasons assy, "My family, selefinitely amongst the tractional orthodox ones. However, that has never influenced the love they have for me. Although they have different plans and want me to follow those plans, they have even supported my wish, my dream and have stood even supported my wish, my dream and have stood strong behind me in every situation. Today my father travels hundreds of kilometers only to help me and keep me safe during my networking tours. Their quiet and humble channelling is the reason why I am so confident in life and a happy person. She says that the current generation has misunderstood the word parent. She adds, "I often come across clients from the current generation who have mis-

understood the intentions of their parents. They often disagree with the decisions or suggestions of their parents because it is cool for them. They are negatively influenced by many youngsters, which is unfortunate. Children must be good listeners and if they disagree with their parents they must politely explain their point of views."

While speaking about the city, she expresses, "Since I have spent my while the city, she expresses, "Since I have spent my while the city, she expresses, "Since I have spent my was not up-close to Nashik and was not up-close to Nashik and was not up-close to Nashik can initiate that the youngsters of the city. However, I am positive that the youngsters of Nashik can initiate change if they change their attitude. I often come across people in the city who restrict their success to 'something better than others'. They need to expand their horizons and stop comparing them



selves with others. We can grow to unlimited levels when we believe in our-selves."

selves."
She shared her opinion over the glitz and glamour of social media. She says, "Social media is playing a significant role in our

lives. It is important to stand out of the crowd and have an edge over others. One must realize that it is

Itedit.nsk@lokmat.com

k First Oct 03, 2021

Mr. Akash Dahadade, Alumni of batch 2015-16 got selected as Tehsildar through Maharashtra Public Service Commission (MPSC) examination.



पुण्य 🎍 नगरी

च्या आकाश दहाडदेची तहसीलदार पदाला गवसणी

२०१९ परीक्षेचा निकाल मंगळवारी (दि. २८) जाहीर सार्योटिफिक असिस्टंट पदावर त्याची निवड झाला. वा परीक्षेत ओझर येथील शेतकरी कुटुंबातील 💮 झाली. त्यावेळी त्याने सहायक कक्ष अधिकारी आकाश राजेंद्र दहाडदे वाने मोठे यश संपादन करीत म्हणून मंत्रालय मुंबई वेथे नोकरीस रुजु होऊन तहसीलदारपदाला गवसणी घातली.

ओझर येथील प्रगतशील शेतकरी व जनसेवा २०१९ मध्ये झालेल्या एमपीएससी राज्यसेवा मंडळाचे उपाध्यक्ष राजेंद्र दहाडदे यांचा आकाश मुलगा परीक्षेत खुल्या गटातून तहसीलदार तथा आहे. आकाशने २०१७ मध्ये एनटी-सी प्रवर्गामधून

ओझर: महाराष्ट्र लोकसेवा आयोगाच्या राज्यसेवा केले होते. त्यानंतर सायबर क्राईम विभागात अभ्यास सुरूच ठेवला होता. त्यानंतर आकाशने

आकाशने इलेक्ट्रॉनिक विषयात २०१६ मध्ये अभियांत्रिकीचे शिक्षण पुर्ण करून प्रशासकीय नोकरी मिळवण्यासाठी जिहीने अभ्यास करत दोनवेळा यश मिळविले. आकाशचे वडील शेतकरी आहेत तर आई गृहिणी. त्याचा लहान भाऊदेखील स्पर्धा

तहसीलदारपदाला गवसणी घातली आहे.

तालुका दंडाधिकारी पदासाठी परीक्षा दिली होती. या परीक्षेची तवारी करत आहे. आकाशच्या या यशाबदल सहाव्यक कक्ष अधिकारी पदाच्या परीक्षेत वश संपादन परीक्षेचा निकाल नुकताच लागला असून, आकाशने त्याचे सर्व स्तरातून कौतुक होत आहे.

लहानपणापासून मी आणि माझ्या विडलांनी बिधतलेले स्वप्न सत्यात उतरल्याने खूप आनंद झाला . स्पर्धा परीक्षा क्षेत्रात प्रचंड बुद्धिमता लाभलेलेच यशस्वी होतात हा एक भ्रम आहे. या क्षेत्रात यशस्वी होण्यासाठी सातत्व आणि स्वतःशी प्रामाणिक असणे अतिशय आवश्यक आहे . त्याचबरोबर बाह्य प्रेरणेपेक्षा स्वयंप्रेरणा आणि आपल्या पालकांनी आपल्यासादी घेतलेले कष्ट यापेक्षा मोढी प्रेरणा कोढेही मिळणार नाही . मंत्रालयीन प्रशासकीय कामकाजानंतर आता प्रत्यक्ष गाव-तालुका स्तरावर काम करण्याची संघी मिळाली असून, त्याचा उपयोग मी सर्वसामान्यांचे प्रश्न सोडविण्यासाठी करेल.

- आकाश दहाडदे, ओझर

NASHIK

Ms. Akshita Sinha, Alumni of batch 2019-20 served as a member in the Executive Leadership team of TEDxGECA held on 10th October 2021.



This Certificate is awarded to

Akshita Sinha

who served the Executive Leadership team as a member

On behalf of the TED Team, we would like to thank you for your dedication and work at

TEDxGECA held on 10th October 2021

Your commitment to TEDx and Ideas Worth Spreading is truly appreciated

> Salome Heusel **TEDx Deputy Director**

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M1: To educate the students with the state-of-the-art technologies and value based education to meet the growing challenges of industry.

M2: To provide scholarly ambience & environment for creating competent professionals.

M3: To inculcate awareness towards societal needs.